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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/649,989	08/27/2003	Vladislav Vashchenko	100-22600 (P05659)	6742	
33402	7590 11/22/2004		EXAMINER		
LAW OFFICES OF MARK C. PICKERING			PHAM,	PHAM, LONG	
P.O. BOX 300 PETALUMA,			ART UNIT	PAPER NUMBER	
·			2814		

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	· ,		<u>un</u>				
	Application No.	Applicant(s)					
	10/649,989	VASHCHENKO ET AL	L.				
Office Action Summary	Examiner	Art Unit	<del></del>				
	Long Pham	2814					
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	e correspondence addre	ss				
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1							
after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a re  If NO period for reply is specified above, the maximum statutory period  Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO	days will be considered timely. om the mailing date of this commi	unication.				
Status			,				
1) Responsive to communication(s) filed on							
2a) This action is <b>FINAL</b> . 2b) ☐ Th	is action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-20 is/are pending in the applicatio							
4a) Of the above claim(s) <u>14-20</u> is/are withdra 5) Claim(s) is/are allowed.	awii iroin consideration.						
6)⊠ Claim(s) <u>1,2,4,5 and 7</u> is/are rejected.							
7)⊠ Claim(s) <u>3,6 and 8-13</u> is/are objected to.							
	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examir	ner.	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre							
Priority under 35 U.S.C. § 119							
a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documer		ation No					
3. Copies of the certified copies of the pri	• •		age				
application from the International Bure	au (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summ		•				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 08/28/03 7/19,27/4.</li> </ol>	Paper No(s)/Mai 5) Notice of Informa 6) Other: <u>Labeled of</u>	al Patent Application (PTO-15	i2)				

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## **DETAILED ACTION**

## Election/Restrictions

1. Applicant's election without traverse of claims 1-13 in the reply filed on 10/01/04 is acknowledged.

#### General Information

Paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at <a href="http://www.uspto.gov/ebc/index.html">http://www.uspto.gov/ebc/index.html</a> or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

The labeled drawing sheet(s) of the present invention are attached to show examiner's understanding of the disclosed and claimed inventions.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 1, 2, 4, 5, and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Sutton (US 4,937,647).

With respect to claims 1 and 2, Sutton teaches a silicon controlled rectifier comprising (see fig. 3 and associated text):

a semiconductor region having:

a buried layer 92 of a first conductivity type (n+) and a dopant concentration;

a first region 94 of a second conductivity type (p) and a dopant concentration;

a second region 90 of the first conductivity type (n-) that contacts the buried layer and the first region, the second region having a dopant concentration that is less than the dopant concentration of the buried layer;

a third region 82 of the second conductivity type (p) formed in the second region, the third region contacting the top surface of the second region; and

a fourth region 62 of the first conductivity type (n) formed in the second region, the fourth region contacting the top surface of the second region and being spaced apart from the third region.

a fifth region 106 of the second conductivity type (p) formed in the second region, the fifth region contacting the top surface of the second region, the fourth region lying between the third and fifth regions.

With respect to claim 4, Sutton further teaches that the fifth region is spaced apart from the buried layer.

With respect to claim 5, Sutton further teaches that the third region is spaced apart form the first region.

With respect to claim 7, Sutton further teaches that the fourth region is spaced apart from the buried layer.

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# Allowable Subject Matter

4. Claims 3, 6, and 8-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on M-F, 7:30AM-3:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Long Pham

Primary Examiner

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